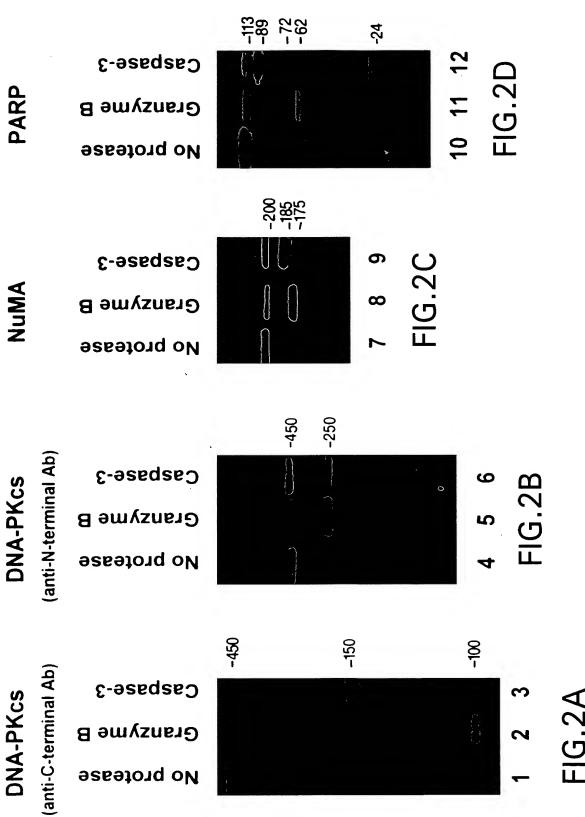
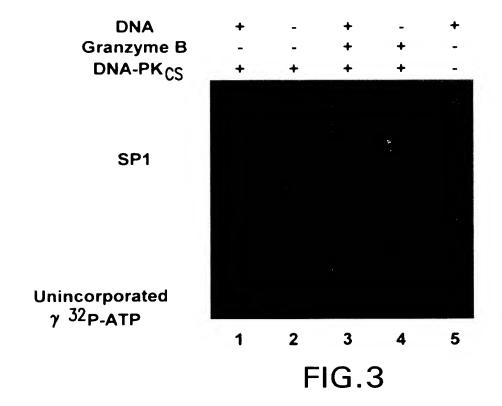


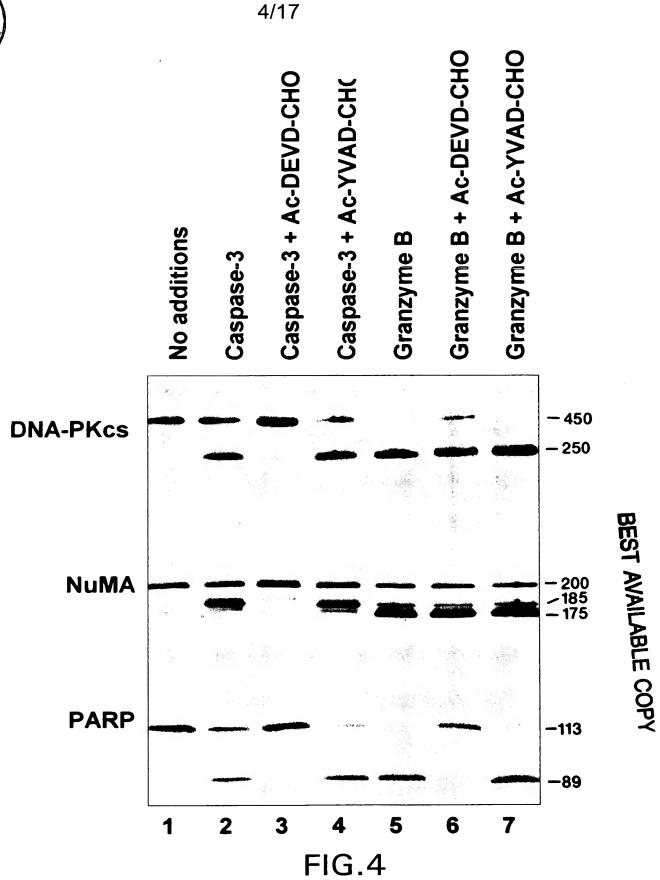


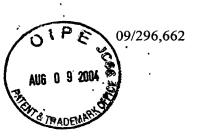
2/17

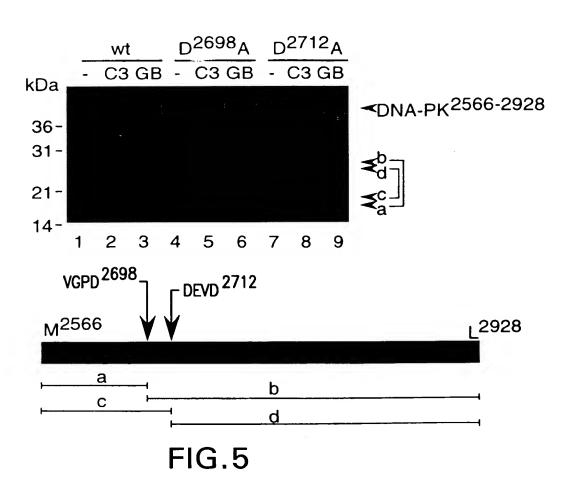




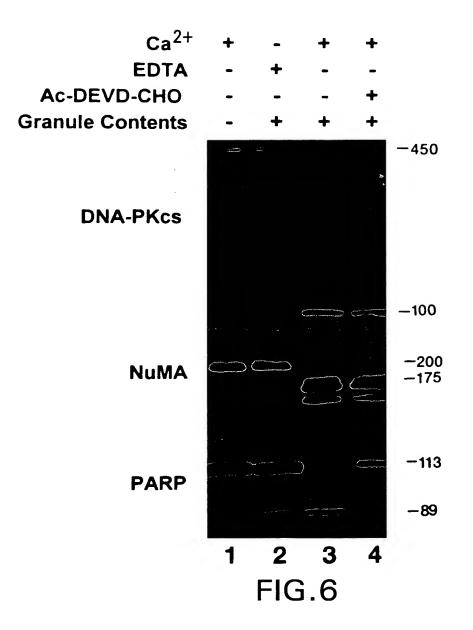






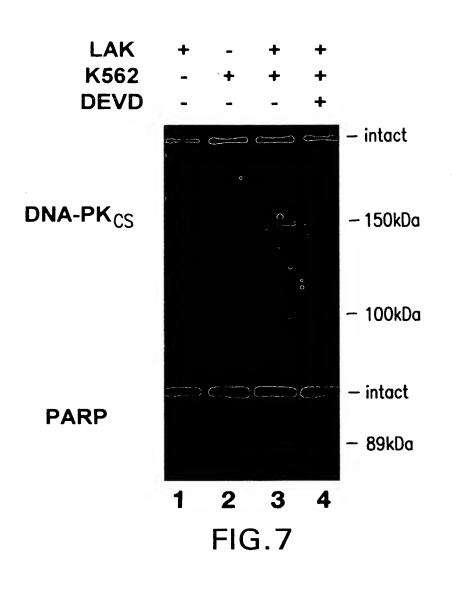






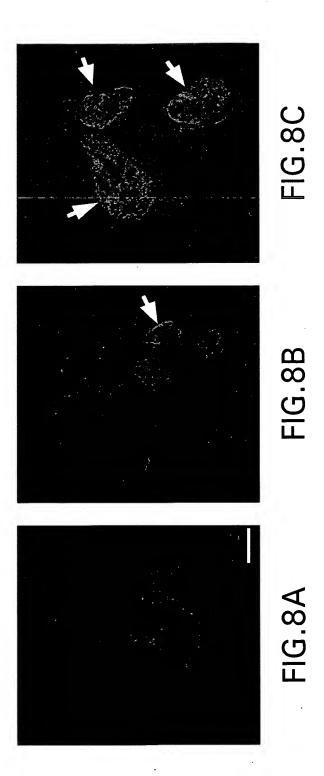
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09/296,662

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LOCUS
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                                            12-APR-1996
DEFINITION NuMA protein - human.
ACCESSION 284337
      q284337
PID
DBSOURCE PIR: locus A42184
    summary: #length 2101 #molecular-weight 236296 #checksum 8715.
    PIR dates: 31-Dec-1993 #sequence_revision 31-Dec-1993#text_change
    12-Apr-1996.
KEYWORDS .
SOURCE human.
 ORGANISM Homo sapiens
    Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
    Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
    Homo.
REFERENCE 1 (residues 1 to2101)
 AUTHORS Compton, D.A., Szilak, I. and Cleveland. D.W.
 TITLE Primary structure of NuMA, an intranuclear protein that defines a
    novel pathway for segregation of proteins at mitosis
 JOURNAL J. Cell Biol. 116 (6), 1395-1408 (1992)
 MEDLINE 92176238
REFERENCE 2 (residues 1 to 2101)
 AUTHORS Tang, T.K., Tang, CJ., Chen, Y.L. and Wu, C.W.
 TITLE Nuclear proteins of the bovine esophageal epithelium.II. The NuMA
    gene gives rise to multiple mRNAs and gene products reactive with
    monoclonal antibody WI
 JOURNAL J. Cell. Sci. 104 (Pt 2), 249-260 (1993)
 MEDLINE 93280231
REFERENCE 3 (residues 1 to 2101)
 AUTHORS Harborth, J., Weber, K. and Osborn, M.
 TITLE Epitope mapping and direct visualization of the parallel,
     in-register arrangement of the double-stranded coiled-coil in the
     NuMA protein
 JOURNAL EMBO J. 14 (11), 2447-2460 (1995)
 MEDLINE 95300777
FEATURES Location/Qualifiers
  source 1..2101
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         /db_xtef="taxon:9606"
  Protein
            1..2101
         /product="NuMA protein"
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FIG.9A





1 mtlhatrqaa Ilswynsihy adpyeaviqi qdcsifikii drihateega qilkqpyser 61 Idfvcsflgk nrkhpsspec Ivsagkvleg selelakmtm Illyhstmss ksprdwegfe 121 ykigaelavi lkfvldheda Inlnedlenf lqkapvpstc sstfpeelsp pshqakreir 181 flelgkvass ssannflsgs paspmadila tpafamrrik kaladersnr delelelaen 241 rklltekdag iammagridr lallnekgaa splepkelee Irdknesitm rihetikaca 301 dlkteksamd rkinglseen adlsfklref ashlaalada Inelteehsk atgewlekaa 361 qlekelsaal qdkkcleekn eilqqklsql eehlsqlqdn ppqekgevlq dvlqletlkq 421 eaatlaannt algarvemie tergageaki laerahfeee kaalssiitd lassisnisa 481 akeelegasa ahaaritaay asitseltti natigaadge lagikagake kaaglaatia 541 agegasagir havegisssi kakegaikev aekgeatrad haggiatsae ereasirerd 601 aalkaleale kekaakleil qaalavanea rdsaatsvta aarekaelsr kveelaacve 661 targegheag agvaelelgi rseggkatek ervagekdal gegigalkes ikvtkgslee 721 ekrraadale eggrciselk aetrslvegh krerkeleee ragrkglear ligigeahga 781 etevirrela eamaaqhtae seceqlykev aawrdgyeds qqeeaqygam fqeqimtike 841 ecekarqelq eakekvagie shselqisrq qnklaelhan laralqavqe kevraqklad 901 distigekma atskevarie tivrkagega etasrelyke paragdrąpe wieegggrąf 961 cstgaalgam ereaegmane leriraalme sagaageera agerevarit gergraaddi 1021 alekaarael emrignaine grvefatige alahaiteke gkdgelakir glesagikel 1081 eelratykal kealakkeke hasasaase aaarteptap klealraevs kleaacakaa 1141 eqadslersl eaerasraer dsaletlaga leekaqelgh sasalasaar elaafrtkva 1201 dhskaedewk agvarargea erknslissl eeevsilnra vlekegeske Ikrlymaese 1261 ksqkleesca ccrqrqpatv pelqnaallc grrcrasgre aekgrvasen Irqeltsqae 1321 raeelggelk awgekffgke galstigleh tstgalvsel ipakhicggi gaegaaaekr 1381 hreelegska aaggiraeli raqrelgeli pirakvaege rtagairaek asyaegismi 1441 kkahallaee nralgerani arafleveld aarekyvael aavradaetr laevareaas 1501 tarelevmta kyegakykyl eerarfgeer akitaayeel skkladsdaa skyggakika 1561 vaaggaesaa eagrfaagin elaaqisake aaashyklam ekakthydak kaangelaeq 1621 Irslegigke nkeiraeaer ighelggagi ktkeaegtor hitagyrsle agvahadggi 1681 rdlgkfqvat dalksrepga kpqldlsids Idlsceegtp Isitsklprt qpdgtsvpge 1741 paspisqrlp pkveslesly ftpiparsqa plessldslq dvfldsgrkt rsarrrttqi 1801 initmtkkld veepdsanss fystrsapas qaslratsst qslarlgspd ygnsallslp 1861 gyrpttrssa rrsgagyssg appgrnsfym gtcgdepegl ddwnriaelg grnrycpphl 1921 ktcyplesrp slslgtitde emktgdpget Irrasmgpig iaegtgittr ggrkrvslep 1981 hagpatpesk katscfprpm tprdrheark astteaakka apastkaadr rasmefslin 2041 tpkklansli rraaskkals kaspntrsat rrspriattt asaataaaia atprakakak 2101 h

FIG.9B

REPLACEMENT SHEET



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    DEFINITION
    ACCESSION 107227
    PID q107227
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    summary: #length 2115 #molecular-weight 238273 #checksum 4391.
    PIR dates: 19-Feb-1994 #sequence_revision 10-Nov-1995 #text_change
    10-Nov-1995.
    KEYWORDS
    SOURCEhuman.
     ORGANISM Homo sapiens
    Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
    Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
    Homo.
    REFERENCE 1 (residues 1 to 2115)
     AUTHORS Yang, C.H., Lambie, E.J. and Snyder, M.
     TITLE NuMA: an unusually long coiled-coil related protein in the
    mammalian nucleus
     JOURNAL J. Cell Biol. 116 (6), 1303-1317 (1992)
     MEDLINE 92176231
    FEATURES Location/Qualifiers
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      /db_xref="taxon:9606"
       Protein 1..2115
      /product="NuMA protein"
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FIG.10A



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FIG. 10B



```
LOCUS
         1362789
                   4096 aa
                                               06-SFP-1996
DEFINITION DNA-activated protein kinase, catalytic subunit - human.
ACCESSION 1362789
      a1362789
PID
DBSOURCE PIR: locus A57099
    summary: #length 4096 #molecular-weight 465420 #checksum 1795.
    genetic: #gene GDB:PRKDC ##cross-references GDB:234702
    #map_position 8q11.
    PIR dates: 27-Oct-1995 #sequence_revision 27-Oct-1995 text_change
    06-Sep-1996.
KEYWORDS
            DNA binding; DNA recombination; DNA repair; nucleus;
    phosphotransferase.
SOURCE
         human.
 ORGANISM Homo sapiens
    Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
    Vertebrata: Mammalia: Eutheria: Prunates: Catarrhini: Hominidae:
    Homo.
REFERENCE 1 (residues 1 to 4096)
 AUTHORS Sipley, J.D., Menninger, J.C., Hartley, K.O., Ward, D.C., Jackson, S.P.
    and Anderson, C.W.
 TITLE Gene for the catalytic subunit of the human DNA-activated protein
     kingse maps to the site of the XRCC7 gene on chromosome 8
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 92 (16), 7515-7519 (1995)
 MEDLINE 95365397
REFERENCE 2 (residues 1 to 4096)
 AUTHORS Hartley, K.O., Gell, D., Smith, G.C., Zhang, H., Divecha, N.,
     Connelly, M.A., Admon, A., Lees-Miller, S.P., Anderson, C.W. and
     Jackson, S.P.
 TITLE DNA-dependent protein kinase catalytic subunit: a relative of
     phosphatidylinositol 3-kinase and the ataxia telangiectasia gene
     product
 JOURNAL Cell 82 (5), 849-856 (1995)
 MEDLINE 95401275
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   Protein
              1..4096
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      /product="DNA-activated protein kinase, catalytic subunit"
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FIG.11A



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REPLACEMENT SHEET



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2761	kmkqdagvvl	yrsyrhgdlp	diqikhssli	tplqavaqrd	piiakqlfss	lfsgilkemd
2821						
2881	aslqqpvgir	lleeallrll	paelpakrvr	gkarlppdvl	rwvelaklyr	sigeydvlrg
2941					vdgepteaek	
3001					pymirsklkl	
3061	Itfidkamhg	elqkailelh	ysqelsllyl	Iqddvdraky	yigngiqsfm	qnyssidvll
3121	hqsrltklqs	vqalteiqef	isfiskqgnl	seqvplkrll	ntwtnrypda	kmdpmn i wdd
3181	iitnrcffls	kieekItplp	ednsmnvdqd	gdpsdrmevq	eqeedissli	rsckfsmkmk
3241					rlshcrsrsq	
3301	ktvslldenn	vssylxknil	afrdqnillg	ttyriianal	ssepaclaei	eedkarrile
3361					scgpaagvid	
3421	qqlrkeeena	svtdsaelqa	ypalw ekml	kalkInsnea	rlkfprllgi	ierypeetls
3481	lmtkeissvp	cwqfiswish	mvalldkdqa	vavqhsveei	tdnypqaivy	pfiissesys
3541	fkdtstghkn	kefvariksk	Idqggviqdf	inaldqlsnp	ellfkdwsnd	vraelaktpv
3601	nkkniekmye	rmyaalgdpk	apglgafrrk	fiqtfgkefd	khfgkggskl	Irmklsdfnd
	itnmlllkmn	110	•		1 3 3 7 3 7 1	, , ,
3721	fdervtvmas	Irrpkriiir	ghderehpf l	vkggedlrqd	qrveq fqvm	ngilaqdsac
3781		, ,		•	gaymImykga	
3841	kreskvpadl	Ikrafvrmst	speaflairs	hfasshalic	ishwilgigd	rhInnfmvam
3901					pmketglmys	
3961	sdpglltntm	dvfvkepsfd	wknfeqkmlk	kggswiqein	vaeknwyprq	kicyakrkla
4021	ganpavitcd	ellighekap	afrdyvavar	gskdhniraq	epesqlseet	qvkcimdgat
4081	dpnilgrtwe	gwepwm				

FIG.11C

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LOCUS 01-NOV-1997 130781 1014aa DEFINITION POLY (ADP-RIBOSE) POLYMERASE (PARP) (ADPRT) (NAD(+)ADP-RIBOSYLTRANSFERASE) (POLY(ADP-RIBOSE) SYNTEHTASE). ACCESSION 130781 PID q130781 DBSOURCE SWISS-PROT: locus PPOL_HUMAN, accession P09874 class: standard. created: Mar 1, 1989. sequence updated: Dec 1, 1992. annotation updated: Nov 1, 1997. xrefs: qi: 510112, qi: 1017423, qi: 190166, gi: 190167, gi: 337423, gi: 337424, gi: 178151, gi: 178152, gi: 190266, gi: 190267, gi: 178188, qi: 178190, qi: 189533, qi: 189534, qi: 35286, qi: 825702, gi: 35288, gi: 189535, gi: 189536, gi: 88229, gi: 88227, gi: 627553, gi: 107162, gi: 107160, gi: 482956, gi: 420073, gi: 107158 xrefs (non-sequence databases): AAR;EIUS/GHENT-2DPAGE 1620, MIM 173870, MIM 173871, PROSITE PS00347, PROSITE PS50064 KEYWORDS TRANSFERASE; GLYCOSYLTRANSFERASE; NAD; DNA-BINDING: NUCLEAR PROTEIN; ADP-RIBOSYLATION; ZINC-FINGER; ZINC. SOURCE human. ORGANISM Homo sapiens Eukaryotae; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. REFERENCE 1 (residues 1 to 1014) AUTHORS Auer, B., Nagl, U., Herzog, H., Schneider, R. and Schweiger, M. TITLE Human nuclear NAD+ ADP-ribosyltransferase(polymerizing): organization of the gene JOURNAL DNA 8 (8), 575-580 (1989) MEDLINE 90091744 REMARK SEQUENCE FROM N.A. REFERENCE 2 (residues 1 to 1014) AUTHORS Uchida, K, Morita, T., Sato, T., Ogura, T., Yamashita, R., Noquehi,S., Suzuki, H., Nyunoya, H., Miwa, M. and Sugimura, T. TITLE Nucleotide sequence of a full-length cDNA for human fibroblast poly(ADP-nbose) polymerase JOURNAL Biochem. Biophys. Res. Commun. 148 (2), 617~22 (1987) MEDLINE 88076933 REMARK SEQUENCE FROM N.A. TISSUE=FIBROBLAST

FIG. 12A

REPLACEMENT SHEET



17/17

1 maessdklyr veyaksgras ckkcsesipk dslrmaimva spmfdakvph wyhfscfwkv 61 ghsirhpdve vdgfselrwd dagkvkktae aggvtgkaad aigskaektl adfaaeyaks 121 nrstckgcme kiekgavrls kkmvdpekpa lamidrwyhp acfvknreel afrpeysasa 181 |kgfs||ate dkea|kkg|p gyksegkrkg devdgydeva kkkskkekdk dskleka|ka 241 gndliwnikd elkkvcstnd lkellifnkg gypegesail dryadgmyfg allpceecag 301 glvfkedayy ctgdvtawtk cmvktgtpnr kewvtpkefr eisylkklkv kkgdrifppe 361 tsasvaatpp pstasapaav nssasadkpl snmkiltlak Isrnkdevka mieklaaklt 421 gtankasici stkkevekmn kkmeevkean irvvsedfla dvsastksia elflahilsp 481 wgaevkaepv evvapraksa aalskkskaa vkeeginkse krmkltlkaa aavdpdagle 541 hsahvlekgg kvfeatlplv divkqtnsyy klalleddke nrywifrawa rvatviasnk 601 leampskeda iehfmklyee ktanawhakn ftkypkkfyp leidyggdee avkkltvnpg 661 tksklpkpva dlikmifdve smkkamveye idlakmplak Iskraigaay silsevagav 721 sagssdsgil dlsnrfytli phdfamkkpp llnnadsvaa kvemldnild ievaysilra 781 gsddsskdpi dvnyeklktd ikvvdrdsee aeiirkyvkn thatthnayd levidifkie 841 regecgrykp fkalhnrrll whaerttnfa ailagalria ppeapytaym fakaiyfadm 901 vsksanycht sagdpialil laevalanmy elkhashisk lpkakhsvka lakttpdpsa 961 nisldavdvp lataissavn dtsllyneyi vydiaavnlk yllklkfnfk tslw

FIG.12B

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